

US EPA ARCHIVE DOCUMENT



U.S. ENVIRONMENTAL PROTECTION AGENCY

Air Sampling Report

Location Name/ID	FLAV002 PCFL
City, State	Panama City, Florida
Latitude	30.1289
Longitude	-85.7381

SCREENING LEVELS FOR ONE YEAR AVERAGE EXPOSURE TO VOLATILE ORGANIC COMPOUNDS (VOCs) COMMONLY FOUND IN CRUDE OIL		
Contaminant concentration, 1-year average. Measured in micrograms/cubic meter (µg/m3)	Health Concern?	Action
Benzene: 20 µg/m3 and below Toluene: 5000 µg/m3 and below Ethylbenzene: 3000 µg/m3 and below Xylene: 3000 µg/m3 and below	Low concern for increased risk of health problems for measurements in this range.	Public: No action suggested. EPA will continue to evaluate sample results.
Benzene: Above 20 µg/m3 Toluene: Above 5000 µg/m3 Ethylbenzene: Above 3000 µg/m3 Xylene: Above 3000 µg/m3	Level of health concern depends on how much above these levels the measurement is and for how long. Concentrations slightly above these levels for short durations do not generally pose health concerns. There may be some health concern if people are exposed to these levels continuously for a year or more.	Public: No immediate action suggested. EPA will continue to monitor the levels closely. Additional investigation may be needed, e.g., reviewing information about the detected chemical, and where the higher concentrations may be coming from. Additional monitoring may be needed.
If air pollution reaches levels requiring immediate action, you will be notified via local news media.		

Volatile Organic Compounds Chemical Results in µg/m3

DATE RANGE	BENZENE	ETHYLBENZENE	O-XYLENE	TOLUENE
08/21/2010	.4	.11	.09	.68
08/20/2010	.2	.05	.05	.25
08/19/2010	.15	.05	.04	.19
08/18/2010	.14	.05	.04	.2
08/17/2010	.14	.05	.04	.26
08/16/2010	.18	.07	.05	.27
08/15/2010	.57	.22	.14	.85
08/14/2010	.3	.07	.07	.4

DATE RANGE	BENZENE	ETHYLBENZENE	O-XYLENE	TOLUENE
08/13/2010	.29	.08	.07	.45
08/12/2010	.21	.05	.05	.31
08/11/2010	.2	.09	.06	.44
08/10/2010	.54	.2	.21	1.21
08/09/2010	.33	.12	.13	.58
08/08/2010	.34	.09	.07	.94
08/07/2010	.73	.3	.27	1.78
08/06/2010	.21	.07	.05	.2
08/05/2010	.2	.05	.04	.2
08/04/2010	.29	.27	.11	.59
06/02/2010	1.3	1.8	1.8	
06/01/2010				1.7
05/31/2010	1.3	1.8	1.8	
05/29/2010			2.4	
05/26/2010	1.3	1.7	1.7	
05/25/2010			1.7	
05/24/2010	1.4	1.9	1.9	
05/20/2010			1.8	
05/18/2010				1.7

DATE RANGE	BENZENE	ETHYLBENZENE	O-XYLENE	TOLUENE
05/17/2010		1.7	1.7	
05/16/2010	1.4	1.9	1.9	
05/15/2010		1.8	1.8	
05/14/2010		1.7	1.7	
05/12/2010		1.8	1.8	
05/11/2010		1.8	1.8	
05/09/2010		1.7	1.7	
05/08/2010		1.7	1.7	
05/07/2010		1.7	1.7	
05/06/2010		1.7	1.7	
05/05/2010		1.7	1.7	
05/04/2010	1.6			
05/03/2010		1.7	1.7	
05/02/2010		1.5	1.5	
05/01/2010		2.1	2.1	



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Semi Volatile Organic Compounds
Chemical Results in µg/m3

DATE RANGE	BENZO(B)FLUORANTHENE	BENZO(A)PYRENE	BENZO(K)FLUORANTHENE	BENZ(A)ANTHRACENE	CHRYSENE	DIBENZ(A,H)ANTHRACENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE
08/21/2010	.0000824	.0000569	.0000559	.0000616	.0000739	.0000478	.0000387	.03
08/20/2010	.000084	.000058	.000057	.0000628	.0000682	.0000487	.0000394	.00565
08/19/2010	.0000842	.0000582	.0000571	.0000629	.0000577	.0000489	.0000395	.0029
08/18/2010	.0000906	.0000626	.0000614	.0000677	.0000928	.0000525	.0000425	.00393
08/17/2010	.000088	.0000608	.0000596	.0000657	.0000714	.000051	.0000413	.00634
08/16/2010	.0000868	.00006	.0000589	.0000649	.0000736	.0000503	.0000407	.00837
08/15/2010	.0000762	.0000526	.0000517	.0000569	.0000734	.0000442	.0000357	.03
08/14/2010	.0000922	.0000637	.0000625	.0000689	.0000765	.0000535	.0000432	.02

DATE RANGE	BENZO(B)FLUORANTHENE	BENZO(A)PYRENE	BENZO(K)FLUORANTHENE	BENZO(A)ANTHRACENE	CHRYSENE	DIBENZO(A,H)ANTHRACENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE
08/13/2010	.0000841	.0000581	.0000571	.0000629	.000134	.0000488	.0000395	.02
08/12/2010	.000101	.0000699	.0000686	.0000756	.000134	.0000587	.0000475	.00998
08/11/2010	.0000959	.0000663	.0000651	.0000717	.0000762	.0000556	.000045	.01
08/10/2010	.000112	.0000773	.0000759	.0000836	.0000862	.0000649	.0000525	.01
08/09/2010	.0000773	.0000534	.0000524	.0000578	.0000956	.0000448	.0000363	.01
08/08/2010	.0000883	.000061	.0000599	.000066	.0000819	.0000512	.0000414	.02
08/07/2010	.00008	.0000553	.0000543	.0000598	.0000878	.0000464	.0000375	.03
08/05/2010	.000163	.000113	.000111	.000122	.000096	.0000948	.0000766	.00619
08/04/2010	.000184	.000127	.000125	.000137	.000109	.000107	.0000862	.02



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SCREENING LEVELS FOR ONE-YEAR AVERAGE EXPOSURE TO POLYCYCLIC AROMATIC COMPOUNDS (PAHS) COMMONLY FOUND IN CRUDE OIL		
Contaminant concentration, 1-year average. Measured in micrograms /cubic meter (µg/m3)	Health Concern?	Action
Benzene: 20 µg/m3 and below Benzo(a)pyrene: .64 µg/m3 and below ** Benzo(a)anthracene: 6.4 µg/m3 and below Benzo(b) fluoranthene: 6.4 µg/m3 and below Benzo(k) fluoranthene: 6.4 µg/m3 and below Chrysene: 64 µg/m3 and below Dibenz(a,h) anthracene: .58 µg/m3 and below Indeno(1,2,3-c,d) pyrene: 6.4 µg/m3 and below Naphthalene: 30 µg/m3 and below	Low concern for increased risk of health problems for measurements in this range.	Public: No action suggested. EPA will continue to evaluate sample results.
Benzene: Above 20 µg/m3 Benzo(a)pyrene: Above .64 µg/m3 ** Benzo(a)anthracene: Above 6.4 µg/m3 Benzo(b) fluoranthene: Above 6.4 µg/m3 Benzo(k) fluoranthene: Above 6.4 µg/m3 Chrysene: Above 64 µg/m3 Dibenz(a,h) anthracene: Above .58 µg/m3 Indeno(1,2,3-c,d) pyrene: Above 6.4 µg/m3 Naphthalene: Above 30 µg/m3	Level of health concern depends on how much above these levels the measurement is and for how long. Concentrations slightly above these levels for short durations do not generally pose health concerns. There may be some health concern if people are exposed to these levels continuously for a year or more.	Public: No immediate action suggested. EPA will continue to monitor the levels closely. Additional investigation may be needed, e.g., reviewing information about the detected chemical, and where the higher concentrations may be coming from. Additional monitoring may be needed.
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Polycyclic Aromatic Hydrocarbons
Chemical Results in µg/m3

DATE RANGE	BENZO(B)FLUORANTHENE	BENZO(A)PYRENE	BENZO(K)FLUORANTHENE	BENZO(A)ANTHRACENE	CHRYSENE	DIBENZ(A,H)ANTHRACENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE
08/21/2010	.0000824	.0000569	.0000559	.0000616	.0000739	.0000478	.0000387	.03
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08/17/2010	.000088	.0000608	.0000596	.0000657	.0000714	.000051	.0000413	.00634
08/16/2010	.0000868	.00006	.0000589	.0000649	.0000736	.0000503	.0000407	.00837

DATE RANGE	BENZO(B)FLUORANTHENE	BENZO(A)PYRENE	BENZO(K)FLUORANTHENE	BENZO(A)ANTHRACENE	CHRYSENE	DIBENZO(A,H)ANTHRACENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE
08/15/2010	.0000762	.0000526	.0000517	.0000569	.0000734	.0000442	.0000357	.03
08/14/2010	.0000922	.0000637	.0000625	.0000689	.0000765	.0000535	.0000432	.02
08/13/2010	.0000841	.0000581	.0000571	.0000629	.000134	.0000488	.0000395	.02
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